

Please amend the specification as follows:

Page 4, Second paragraph.

Fig. 1 is architecture of an optical monitoring apparatus for use in a wavelength division multiplexing network according to a preferred embodiment of the present invention, which is used to detect a WDM signal 10 in a network system and comprises an optical isolator 11, a 980/1550 nm WDM coupler 12, an erbium-doped fiber (EDF) 13 of an appropriate length, an optical circulator 14, a 980 nm pump laser 15 and a saturated tone 16. The optical isolator 11 is employed to block the light reflected back to the system. The pump laser 15 can emit a laser with power greater than 100 mW. The WDM signal 10 is coupled with the 980 nm pump laser 15 in the WDM coupler 12 and then enters the erbium-doped fiber 13. The erbium-doped fiber 13 has a length of 6 meters (MP980) or less and is used to scan the gain profile of the WDM signal 10, to monitor the power of lights with a plurality of wavelengths on the WDM system. The gain profile can comprise gain or loss profile. The saturated tone 16 is preferably a DFB laser with a ~~frequency~~ wavelength of 1540 nm and power of 15 dBm. However, the saturated tone 16 can be replaced by another light source as long as the gain profile can be controlled. The signal with a specified frequency is subsequently retrieved from the optical circulator 14 and sent into the power meter 17 for power measurement.